

Circuit Construction Kit Simulation  
Honors Physics

21 Points Total

Instructions:

1. Open [phet.colorado.edu](http://phet.colorado.edu) => play with sims => physics => electricity, magnets, & circuits => circuit construction kit (DC only), virtual lab (at the bottom on the left).
2. Under 'tools,' click both the voltmeter and ammeter buttons.
3. Copy the circuit schematics on the board on your paper, and create it on your simulation.
4. Draw a reduced schematic for each schematic on the board.
5. At the points listed on the schematics, measure the voltage and the current. Record in a data table.
6. Answer the questions listed in the rubric.

Rubric:

1. Given schematic (1 point) and reduced schematic (3 point).
2. Data table: Point, measured voltage, measured current (3 points).
3. Repeat #1-4 for two other given circuits.